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## **CLAIMS**

 Method for voltage stabilization of an electrical power network system comprising a producing power network system side and a consuming power network side by dynamically controlled transformer ratio n.

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2. Method according to claim 1, wherein an on-line tap changer added to the transformer is dynamically controlled by changing a voltage reference.

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3. Method according to claim 2, wherein a feed forward compensation is provided by a first order filter  $H_{ff}(s) = sT_d/(sT+1)$ , wherein T and  $T_d$  are tuning parameters.

4. Method according to claim 2, wherein a feedback controller is provided according to the equation Vfb =  $-\max(0, \alpha (n^2Y_{LD} - 1/Z_{LN}))$ , wherein n,  $Y_{LD}$  and  $Z_{LN}$  have the meanings given above and  $\alpha$  is a tuning parameter that is influencing the region of attraction of the equilibrium point.

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